



This figure displays a multiple sequence alignment (MSA) of protein sequences for various genes, likely TGFBR, across different species. The x-axis represents the amino acid position, ranging from 1 to 1400. The y-axis lists the genes and their abbreviations. The sequences are color-coded based on amino acid properties: green for hydrophobic, blue for polar, and red for aromatic residues.

Genes and Abbreviations:

- 31228968.i
- 17933524.f
- 6981458.m
- 18497290.m
- RAF1.h
- 40538760.d
- 11968120.m
- 27545181.m
- ARAF.h
- 38083943.m
- BRAF.h
- 34855567.m
- 32565699.w
- 34873268.m
- 13878215.m
- SgK307.h
- 34855789.m
- lias_TGFBR

Sequence Regions:

The alignment is divided into several regions based on sequence conservation and domain structure:

- Region 1 (Amino acids 1-100):** Shows high conservation of hydrophobic residues (green).
- Region 2 (Amino acids 100-200):** Shows a mix of hydrophobic and polar residues (green and blue).
- Region 3 (Amino acids 200-300):** Shows a transition with more polar and aromatic residues (blue and red).
- Region 4 (Amino acids 300-400):** Shows a high density of polar and aromatic residues (blue and red).
- Region 5 (Amino acids 400-500):** Shows a mix of hydrophobic, polar, and aromatic residues (green, blue, and red).
- Region 6 (Amino acids 500-600):** Shows a high density of polar and aromatic residues (blue and red).
- Region 7 (Amino acids 600-700):** Shows a mix of hydrophobic, polar, and aromatic residues (green, blue, and red).
- Region 8 (Amino acids 700-800):** Shows a high density of polar and aromatic residues (blue and red).
- Region 9 (Amino acids 800-900):** Shows a mix of hydrophobic, polar, and aromatic residues (green, blue, and red).
- Region 10 (Amino acids 900-1000):** Shows a high density of polar and aromatic residues (blue and red).
- Region 11 (Amino acids 1000-1100):** Shows a mix of hydrophobic, polar, and aromatic residues (green, blue, and red).
- Region 12 (Amino acids 1100-1200):** Shows a high density of polar and aromatic residues (blue and red).
- Region 13 (Amino acids 1200-1300):** Shows a mix of hydrophobic, polar, and aromatic residues (green, blue, and red).
- Region 14 (Amino acids 1300-1400):** Shows a high density of polar and aromatic residues (blue and red).

